

13. The paint and coating material system of Claim 10 wherein the average particle size is 50 – 2000  $\mu\text{m}$ .

14. The paint and coating material system of Claim 10 wherein the average particle size is 100 – 500  $\mu\text{m}$ .

15. The paint and coating material system of Claim 10, comprising  
from 1 to 95% by weight of the solid component a)  
from 0.1 to 60% by weight of the binder component b) in solid or liquid form  
and  
from 4.9 to 98.9% by weight of water, based in each case on the paint and  
coating material system.

16. The paint and coating material system of Claim 10 further comprising a  
component c), which is a water-soluble or water-miscible organic solvent.

17. The paint and coating material system of Claim 10 wherein the solid  
component a) is obtained by wet comminution of the pigments and/or fillers in their  
solid form or as an aqueous or aqueous-organic suspension, optionally in the  
presence of an additive, and then drying them.

18. The paint and coating material system of Claim 10 wherein the solid  
component a) is obtained by spray drying.

19. The paint and coating material system of Claim 18 wherein the spray  
drying is performed in single-fluid or two-fluid spray dryers.

20. The paint and coating material system according to Claim 10 wherein  
the solid component a) is obtained by freeze drying.

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21. A process for painting and coating materials comprising applying an effective amount of the paint and coating material system of Claim 10 on metal, wood, paper, coating slips, wallpaper, leather, nonwovens and textiles.--

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